

TS-8989 PXIe Functional Test System

Maximizing test coverage, minimized space.

Introduction

The Keysight TS-8989 PXIe Functional Test System provides manufactures with a cost effective, integrated, modular PXI-based measurement and high current switch load unit system in a box. The award-winning system-in-box, like its predecessor has been updated to a full PXI-H backplane, increasing the choice and availability of PXI peripheral modules to be integrated. PXI-H slots are compatible with cPCI, PXI-H and PXIe module.

The switching card cage leverages from Keysight E6198B Switch / Load Unit (SLU), a time-tested design to meet your load handling challenges. Cost-effective and reliable, the multi-channelled cards were designed with automotive functional testing in mind. With a wide range of offerings, covering from low to high currents, with user defined internal or externally connected loads, and flyback protection for higher current cards.



Feature description

Product features	Description
Signal Switching Up to 64 x 4 per matrix card (with auxiliary pass through)	- Switching speed as fast as 300 μs - Multiple signal and load routing - Long lasting and reliable switching connections up to 100 million operation cyclesN9020B-513 Frequency range, 10 Hz to 13.6 GHz
High Current Load Switching - Up to 40 A 8-Ch per load card - Up to 48-channels 2 A per load card - Current sense capability - Flyback protection for high current cards	- Enable connections to internal and externally defined loads (resistive, capacitive and inductive) for load simulation (e.g. motor) - Available in Single-load, Dual-load, Quad-load types - Flexible for Pull Up/Down Loads, Bridge Loads, Multiplexing Loads
Measurement 6.5 digits M9183A Digital Multimeter 20 MSa/s M9217A Isolated Digitizer	- Fast DMM measurement speed up to 15,000 reading per second - High precision DMM with basic DCV accuracy 90 ppm $\pm$ 256 V digitizer input voltage - Dual simultaneous sampling digitizer channels with built-in 400 V peak voltage protection

For more detailed information, on the signal and high current load switching, please refer to these links on www.keysight.com :

E8782A Pin Matrix and E8783A Pin Matrix Card

TS-5000 family of multi-channel load cards

Hardware offering

Keysight offers a variety of configuration options for the TS-8989 to suit different product applications. The list below is some of the hardware being offered for your reference. Please contact your Keysight sales representative to find out more, and the best option to suit your needs.

System model	Description
U8989B	TS-8989 PXIe Functional Test System
PXI instrument options	Description
U8989A-311	M9183A PXI DMM and cable
U8989A-330	M9216A 32 Ch DAQ and Cable
U8989B-331	Isolated Digitizer M9217A, 2-channels, 16-bit, 256V, 32MSa/Ch memory
U8989A-335	M9185A 8 Ch DAC and Cable
U8989A-336	M9185A 16 Ch DAC and Cable
U8989A-337	Dynamic DAC M9188A, 16-channels, 16-bit, unipolar 30V/20mA
U8989A-340	M9186A V/I Source and Cable
U8989A-350	M9187A 32 Ch DIO and Cable
Pin matrix card options	Description
E8782A-FG	TS-5400 SLU pin card with instrumentation matrix, 24 instrument, 40 measurements
E8783A-FG	TS-5400 SLU pin card 64x4 measurement matrix

Load card options	Description
E6175A-FG	8-channel 7.5A load card
E6176A-FG	16-channel 7.5A load card
E6177A-FG	24-channel 2 A load card (without current sense)
E6178B-FG	8-channel 30 A load card
N9377A-FG	Dual-load 16-channel 7.5A load card
N9378A-FG	Quad-load 24-channel 2 A load card
N9379A-FG	Dual-load 48-channel 2 A load card
U7177A-FG	24-channel 2 A load card (with current sense)
U7178A-FG	8-channel 40 A load card
U7179A-FG	16-channel 15 A load card